BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improments to Drains and construction of Culverts at Kuvempunagar 1st stage and surrounding area in in ward No 11(Kuvempunagara) in Vidyaranyapura Sub Division.**

	011-17-000004	P-3167	Estimate Cost:				1500000.00	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2014-16**	Cum							
	For CC Road to Cross Road W0163 613. W0554		1	30.00	4.00	0.15	18.00		
			1	40.00	3.00	0.15	18.00		
	Desilting of Drain		1	90.00	1.00	0.60	54.00		
	Culvert @ Naidu Layout Main Road		1	9.00	2.00	1.20	21.60		
							111.60	192.79	**21516.00**
	Basic Rate	77.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.2 / km= 33.51	33.51							
		178.51							
	Area Weightage @8%	14.28							
	Total	**192.79**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	For CC Road to Cross Road W0163 613 W0554		1	30.00	4.00	0.15	18.00		
			1	40.00	3.00	0.15	18.00		
	For Drain Vent Existing SSM Drain		1	90.00	1.00	0.15	13.50		
	Culvert @ Naidu Layout Main Road		1	9.00	2.00	0.15	2.70		
							52.20	5070.60	**264685.00**
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total	**5070.60**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.9 / PWD SR 2015-16**	Cum							
	Drain Raising SSM Existing Drain		2	90.00	0.60	0.20	21.60		
	For Repairs to Drain at Cross Road		2	50.00	0.60	0.40	24.00		
	Culvert		2	9.00	0.60	0.90	9.72		
							55.32	4905.36	**271365.00**
	Basic Rate	4542.00							
	Area Weightage @ 8%	363.36							
	Total	**4905.36**							
4	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**	Cum							
	Existing Drain Vent Concrete		1	90.00	1.00	0.10	9.00		
	Coping Existing SSM Drain		2	90.00	0.60	0.10	10.80		
	Culvert Coping		1	9.00	1.80	0.10	1.62		
	Ramp		2	9.00	0.90	0.15	2.43		
	Coping Existing SSM Drain @ Cross Road		2	50.00	0.60	0.10	6.00		
	Vent Concrete		1	50.00	0.60	0.10	3.00		
							32.85	5490.72	**180370.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
5	KSRB 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 109 / Item No. 15.1 / PWD SR 2015-16**	Sqm							
	Pointing to Existing SSM Drain		2	90.00		1.00	180.00		
	Pointing to Culvert		2	9.00		0.90	16.20		
	Pointing to Existing SSM Drain @ cross Road		2	50.00		0.90	90.00		
							286.20	99.36	**28437.00**
	Basic Rate	92.00							
	Area Weightage @ 8%	7.36							
	Total	**99.36**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
6	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum							
	For Existing SSM Drain Covering Slab		1	90.00	2.00	0.15	27.00		
							27.00	6332.04	**170965.00**
	Basic Rate	5863.00							
	Area Weightage @ 8%	469.04							
	Total	**6332.04**							
7	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
	For Roof, Columns @ 70 Kg / Cum		0.080	27.00			**2.16**	59327.91	**128148.00**
	Revised Basic Rate	54933.25							
	Area Weightage @ 8%	4394.66							
	Total	**59327.91**							
8	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	For Existing Drain Covering Slab		1	90.00		1.00	90.00		
	For Existing Drain Sides		2	90.00		0.15	27.00		
	For CC Road to Cross Road W0163 Sides		2	30.00		0.30	18.00		
			2	40.00		0.30	24.00		
							159.00	306.72	**48768.00**
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	**306.72**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
9	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge- Data rate	Sqm							
	culvert deck slab		1	9.00	1.80		16.20		
							16.20	5125.00	**83025.00**
10	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	For Covering Slab to existing Drain		1	50.00	1.20		60.00		
							60.00	1760.00	**105600.00**
11	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, **including groove cutting charges**, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and gra	Cum							
	For CC Road to Cross Road W0163		1	30.00	4.00	0.125	15.00		
			1	40.00	3.00	0.125	15.00		
							30.00	5287.68	**158630.00**
	Basic Rate	4896.00							
	Area Weightage @8%	391.68							
	Total	**5287.68**							
12	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2015-16**	Sqm							
	CC Road		1	30.00	4.00		120.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1	40.00	3.00		120.00		
							240.00	97.20	**23328.00**
	Basic Rate	90.00							
	Area Weightage @8%	7.20							
	Total	**97.20**							
	Sub Total								**1484837.00**
	Third Party inspection Charges @ 1%								**14848.00**
	Miscellaneous and other Charges	L/S							**315.00**
								Total	**1500000.00**

Rupees Fifteen Lakh(s) Only

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

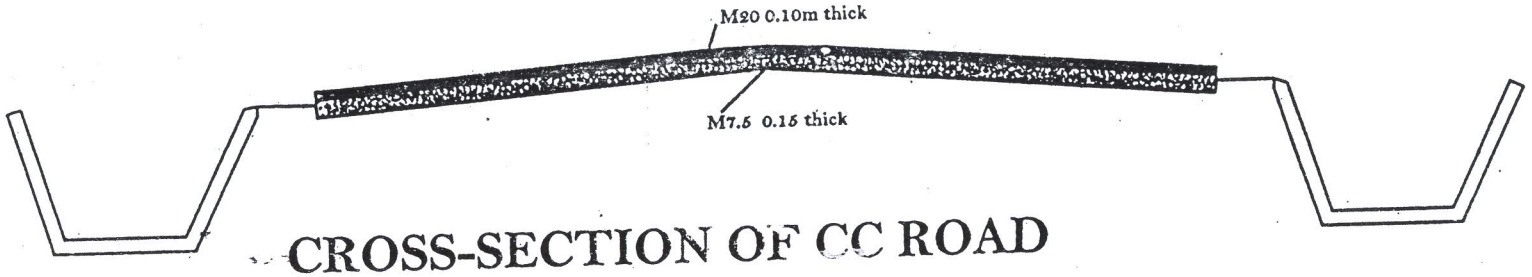
24/12
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
24/12

Administrative Approval
Accorded For 15.00 lakh Rs
Head of A/C P-3167
CER NO : 74 **Dt:** 31/12/16

TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Fifteen lakhs only
Head of A/c P-3167
Div. Ref. No. 91/16-17 Date 31/12/16
AE
EE(BTP) 31/12

NAME OF WORK:-



CROSS-SECTION OF CC ROAD

INDEX

M7.5 1:4:8 0.15m Thick

M20 1:1.5:3 0.10m Thick

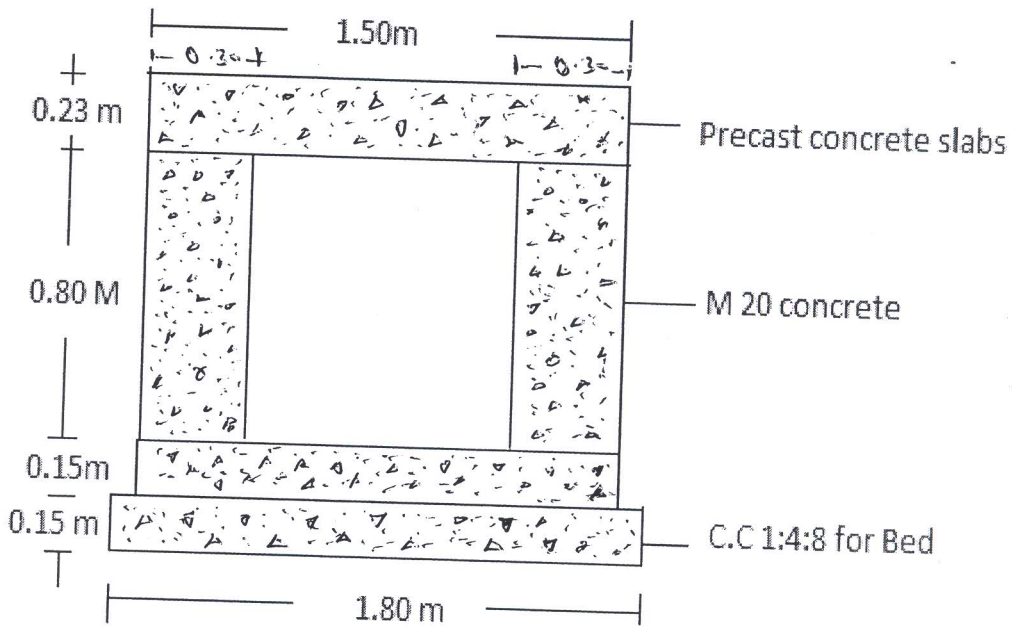
ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.

Name of work : .....

.....in Ward No 11 Kuvempunagara,

Vidyaranyapura sub Division



Cross section of Culvert

Assistant Engineer
Ward No 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

Name of work : Improvements to Drains and construction of Culverts at Kuvempunagar 1st tage and surrounding area in ward No 11 (Kuvempunagara)in Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97